



DDoS ATTACK MITIGATION

FortiDDoS™ 2000B

QuickStart Guide



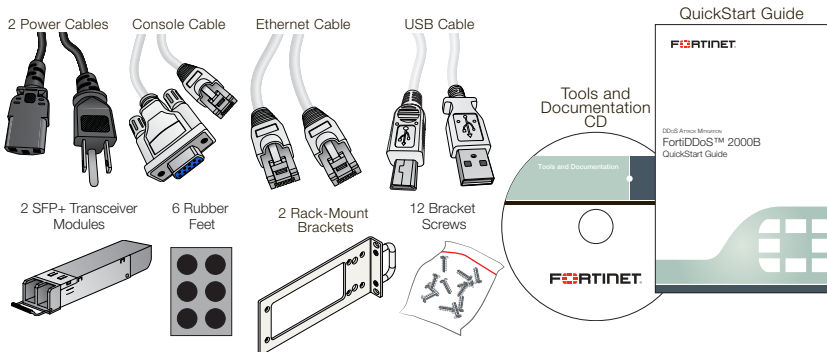
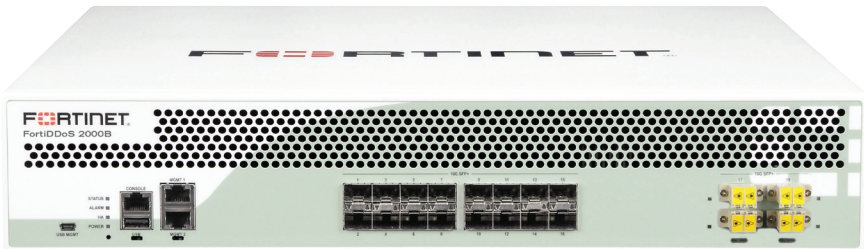
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Package contents

The box should contain:

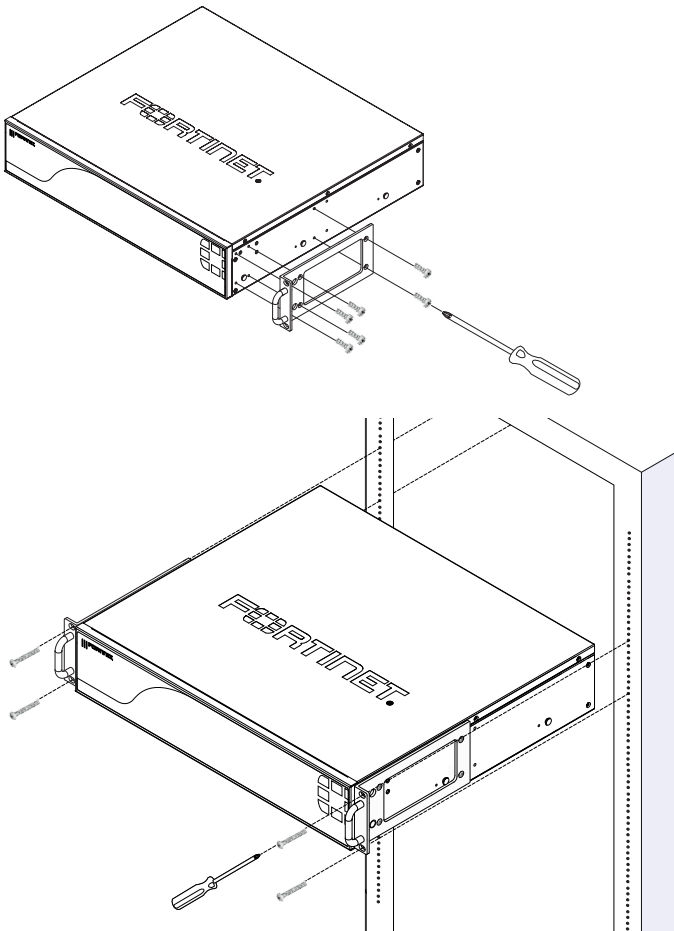
- FortiDDoS 2000B appliance
- FortiDDoS 2000B QuickStart Guide
- Tools and Documentation CD
- 2 Power cables
- Ethernet cable
- Console cable
- USB cable
- 2 SFP+ transceiver modules
- 6 Rubber feet
- 2 Rack-mount brackets
- 12 Bracket screws



Rack mounting

FortiDDoS appliances should be installed in a restricted access location such as a locked data center to ensure their physical security, which is fundamental to your network security. Either place the FortiDDoS appliance on a flat surface, or mount it in any standard 19 inch (48.3 cm) rack with the rack-mount brackets. In a rack, a FortiDDoS 2000B occupies 2U (3.5 inches/8.9 cm).

- **2-post rack:** Attach the rack-mount brackets to the **middle** of each side of appliance so that its weight is distributed evenly.
- **4-post rack:** Attach the rack-mount brackets to the **front** of each side of the appliance with flanges facing outwards, towards the notches in the rack.

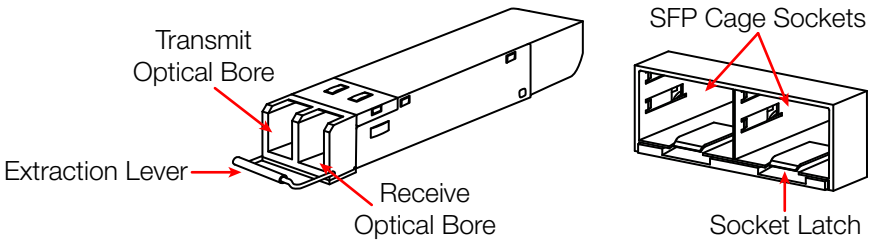


Installing SFP transceivers

If not already installed, install the SFP transceivers that will be used to connect your appliance to the network.

Caution: Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and optical interfaces. It may also prevent the transceiver from latching correctly into the socket.

Note: Installing and removing SFP transceivers can shorten their life. Do not install or remove transceivers more than is necessary.



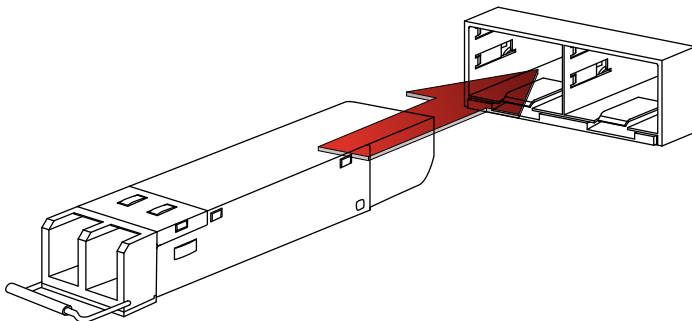
To install the SFP transceivers

1. On the appliance's front panel, remove the caps from SFP cage sockets.
2. Position the SFP transceiver in front of the cage socket so that the extraction lever is level with the socket latch.

Note: SFP cage socket orientation may vary. Ensure that the SFP transceiver module is correctly oriented.

3. Holding the sides of the SFP transceiver, gently slide it into the cage socket.

Caution: Do not force SFP transceivers into cage slots. Force can cause damage. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign or rotate it, and try again.



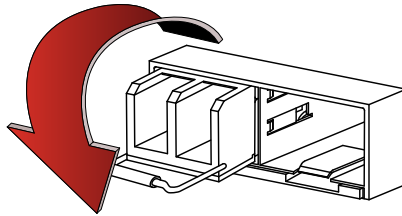
4. Press the transceiver firmly into the cage socket with your thumb until it clicks, indicating that it is latched.
5. To verify that the transceiver is latched, grasp its sides and try to pull it out **without** lowering the extraction lever.

If you can remove the transceiver, it was **not** latched correctly, and could become accidentally dislodged. Try again.

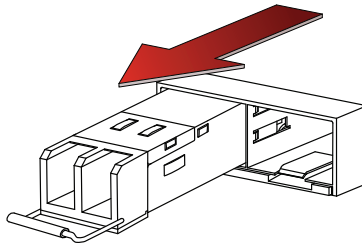
To remove the SFP transceivers

1. Disconnect the fiber optic cable from the transceiver connector.
2. To prevent dust from entering the optical bores, insert clean plugs.
3. To eject the transceiver, pull the extraction lever out and down.

Tip: Instead of using your finger, try a small flat-head screwdriver.



4. Hold the sides of the transceiver and carefully pull it from the cage socket.



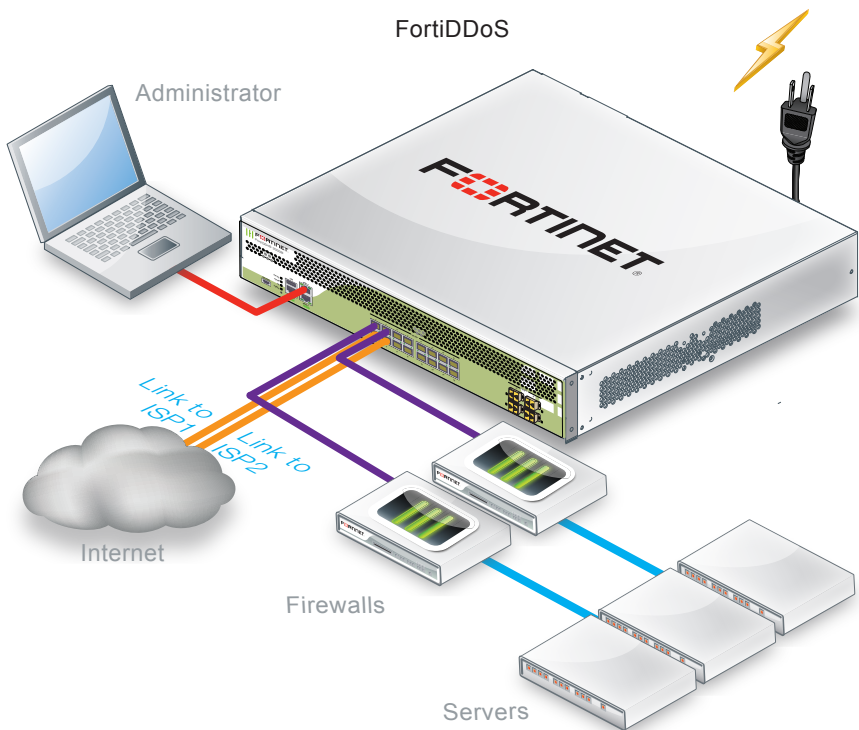
5. Replace the cap on the SFP cage socket.
6. Put the removed SFP transceiver into an anti-static bag.

Connecting to FortiDDoS

If the appliance has a redundant power supply, connect each power cable to a different power source.

You can configure FortiDDoS for your network through a connection to either its web UI or command line interface (CLI).

Connect FortiDDoS only to your computer until you finish setup. (If you place FortiDDoS in your network before FortiDDoS is set up, traffic could be interrupted until setup is complete.) **Deployment instructions are in the [FortiDDoS Handbook](#).** One typical, basic network topology is shown below.



Note: Ports 17-20 have a built-in bypass mechanism. For all other ports, Fortinet recommends that you use optical bypass switches to provide bypass functionality. See the handbook for more information.

To connect to the web UI

Requires: Microsoft Internet Explorer 8, Mozilla Firefox 20, Apple Safari 6, or Google Chrome 20 or newer

1. Using the Ethernet cable, connect MGMT 1 port of the appliance to your computer.
2. Configure your computer to match the appliance's default MGMT 1 subnet.

For example, on Windows 7, click the *Start* (Windows logo) menu to open it, then click *Control Panel*. Click *Network and Sharing Center*, *Local Area Connection*, and then the *Properties* button. Select *Internet Protocol Version 4 (TCP/IPv4)*, then click its *Properties* button. Select *Use the following IP address*, then change your computer's settings to:

- *IP address:* 192.168.1.100
- *Subnet mask:* 255.255.255.0

3. To connect to FortiDDoS's web UI, start a web browser and go to <https://192.168.1.99>. (Remember to include the "s" in https://.)
4. Type `admin` in the *Name* field, leave the *Password* field blank, then click *Login*.

To connect to the CLI via serial console

Requires: Terminal emulator such as PuTTY, Tera Term, or a terminal server

1. Using the console cable, connect the appliance's console port to your terminal server or computer.
2. On your computer or terminal server, start the terminal emulator. Use these settings:

- *Baud rate:* 9600
- *Data bits:* 8
- *Parity:* None
- *Stop bits:* 1
- *Flow control:* None

3. Press Enter on your keyboard to connect to the CLI.
4. For the username, enter `admin`. Do not enter a password.

Shutting down



Always properly shut down the FortiDDoS appliance's operating system before turning off the power switch or unplugging the appliance. This causes it to finish writing buffered data, and to slow and park the hard disks.

Do not unplug or switch off the FortiDDoS appliance before halting the operating system. Failure to shut down correctly could cause data loss and hardware problems.

To power off the appliance via the web UI

1. Go to *System > Status > Dashboard*.
2. In the *System Information* widget, click the *Shut Down* button.

You may be able to hear the appliance become more quiet when the appliance stops its hardware and operating system, indicating that it is ready for power to be disconnected.

3. Disconnect the power cable from the power supply.

To power off the appliance via the CLI

1. Either connect to the CLI using a terminal emulator, or connect to the web UI and go to the *CLI Console* widget in *System > Status > Dashboard*.
2. Enter the following command:

```
execute shutdown
```

You may be able to hear the appliance become more quiet when the appliance stops its hardware and operating system, indicating that it is ready for power to be disconnected.

3. Disconnect the power cable from the power supply.

Registering your product

Register

You must register the product with Fortinet in order to receive:

- Technical support • Software updates
- FortiGuard updates



Enregistrer

Vous devez enregistrer le produit pour recevoir:

- Support technique • Mises-à-jour logiciel
- Mises-à-jour FortiGuard

Registra

La registrazione vi permette di usufruire di:

- Supporto tecnico • Aggiornamenti software • Aggiornamenti FortiGuard

Registrar

Debe registrar el producto para recibir:

- Apoyo técnico • Actualizaciones de software
- Actualizaciones FortiGuard

登録のお願い

下記フォーティネットからのサービスを受けるために、ご購入製品の登録が必要です。

- テクニカルサポート • ソフトウェアのアップデート • FortiGuardのアップデート

请马上注册

您的飞塔产品

您在注册以后才能得到技术支持, 软件升级, 及FortiGuard最新威胁防护

Web: <https://support.fortinet.com/>

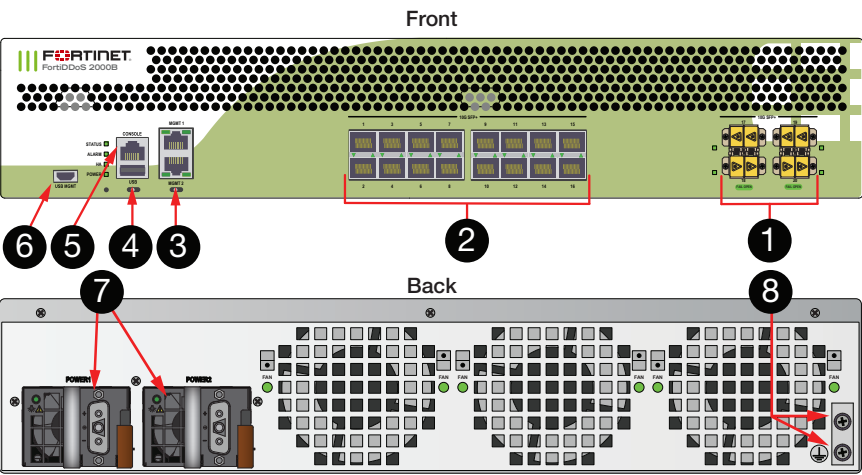
Toll free: 1 866 648 4638

Phone: 1 408 486 7899

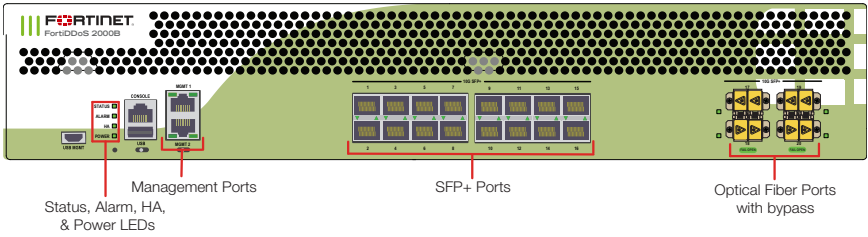
Fax: 1 408 235 7737

Email: register@fortinet.com

Ports & LEDs



#	Interface	Type	Protocol	Description
1	Optical Fiber Ports 17-20 with Fail- Open Capability	SR, MM- LC Fiber	10-Gigabit Ethernet	SR ports accepting multi-mode optical fiber with LC connectors.
2	SFP+ Ports 1 - 16	SFP+ (SR-type)	10-Gigabit Ethernet	SerDes small form-factor pluggable (SFP) transceiver.
Note: Ports 1-16 and 17-20 are configured in specific link pairs (Ports 1 & 2, Ports 3 & 4, Ports 5 & 6, and so on). Connect odd-numbered ports to your network (LAN) and even-numbered ports to the Internet (WAN).				
3	MGMT 1	RJ-45	Gigabit Ethernet	Management port. Default IP address is 192.168.1.99.
3	MGMT 2	RJ-45	Gigabit Ethernet	Use to synchronize configuration between two appliances.
4	USB Port	USB-A	USB 2.0	Reserved for future use.
5	Console	RJ-45	RS-232 serial 9600 bps	Connection to management computer.
6	USB MGMT	USB-B	USB 2.0	Reserved for future use.
7	Redundant Power Connections			100 - 240 V AC 50 - 60 Hz 6 - 3 A
8	Earthing Terminals			Connect to ground using minimum #14 AWG green-with-yellow conductor.



LED	State	Description
Status	Green	The appliance is operating normally.
	Flashing Green	The appliance is turning on.
	Off	The appliance is off.
Alarm		Not used.
HA	Green	The appliance is operating in normal HA mode.
	Red	The appliance is operating in failover HA mode.
	Off	The appliance is not operating in HA mode.
Power	Green	The appliance is on.
	Off	The appliance is off.
MGMT Network Activity	Green	Link detected.
	Flashing Green	Port is transmitting and receiving data.
	Off	No link detected.
MGMT Network Speed	Green	Port is connected at 1Gbps.
	Amber	Port is connected at 100Mbps.
	Off	Port is connected at 10Mbps or is not in use.
SFP+ Ports	Green	Link detected.
	Flashing Green	Port is transmitting and receiving data.
	Off	No link detected.
Optical Fiber Ports	Green	Link detected.
	Flashing Green	Port is transmitting and receiving data.
	Off	No link detected.
Optical Fiber Ports Fail Open	Green	Port is operating normally.
	Amber, Red	Port is operating in bypass mode.

Environmental specifications

- **Operating temperature** — 0 to 40°C (32 to 104°F) If this device is installed in a closed or multi-unit rack assembly, the rack's ambient temperature may be greater than the room's ambient temperature. Make sure the rack environment is compatible with the manufacturer's maximum rated ambient temperature (T_{ma}).

Température ambiante élevée — 0 à 40 ° C (32 à 104 ° F) Si cet appareil est installé dans un cabinet fermé, la température ambiante du cabinet peut être supérieure à la température ambiante de la pièce. Assurez- vous que l'environnement dans le cabinet est compatible avec la température ambiante maximale du fabricant (T_{ma}).

- **Storage temperature** — -25 to 70°C (-13 to 158°F)

Température d'entreposage — 25 à 70 ° C (-13 à 158 ° F)

- **Humidity** — 5 to 95% non-condensing

Humidité — 5 à 95% sans condensation

- **Operating altitude** — < 2250 m (7380 ft)

Altitude opérationnelle — <2250 m (7380 pi)

- **Air flow** — For rack installation, make sure that the amount of air flow required for safe operation of the equipment is not compromised. For free-standing installation, make sure that the appliance has at least 2 inches (5 cm) of clearance on each side to allow for adequate air flow and cooling.

Ventilation — Pour une installation dans un cabinet, assurez-vous que la ventilation nécessaire au fonctionnement de l'équipement n'est pas compromise. Pour une installation autonome, assurez-vous que l'appareil dispose d'au moins 2 pouces (5 cm) de dégagement de chaque côté pour permettre l'écoulement de l'air et un refroidissement adéquat.

- **Circuit overloading** — To avoid overloading, use the ratings on the label.

Consider the equipment's connection to the supply circuit and the effect that circuit overloading might have on current protection and supply wiring.

Surtension — Pour éviter de surcharger le circuit d'alimentation, référez-vous aux notes sur l'étiquette de l'équipement. Envisagez l'effet que la surtension du circuit pourrait avoir sur la protection de surtension et le câblage d'alimentation.

- **Reliable earthing** — Make sure all rack-mounted equipment is grounded. This includes supply connections (e.g. power strips), not only direct connections to the branch circuit.

Mise à la terre — Assurez-vous que tout l'équipement est mis à la terre.

Ceci comprend les connexions d'alimentation (par exemple, les barres d'alimentation) en plus des connexions directes au circuit de dérivation.

- **Interference** — If possible, use Shielded Twisted Pair (STP) Ethernet cables instead of Unshielded Twisted Pair (UTP).

Interférence — Si possible, utilisez des câbles Ethernet de paire torsadée blindée (STP) plutôt que de paire torsadée non blindée (UTP).

Safety

- **Mechanical loading** — To avoid personal injury or damage to the appliance, Fortinet recommends that 2 or more people together install the appliance into the rack. Balance the equipment to avoid uneven mechanical loading and tipping. Do not place heavy objects on the appliance.
Installation – Pour éviter des blessures ou des dommages à l'appareil, Fortinet recommande que deux personnes ou plus installent ensemble cet équipement dans un cabinet. L'installation du matériel à l'intérieur de la baie doit être effectuée de façon à éviter toute situation dangereuse liée à une installation non conforme. Ne placez pas d'objets lourds sur l'appareil, celui-ci n'étant pas conçu pour soutenir un poids additionnel.
- **Moving Parts** — Hazardous moving parts. Keep away from moving fan blades.
Pièces mobiles – Pièces mobiles dangereuses. Se tenir éloigné des pales de ventilateurs mobiles.
- **Electric shock / fire** — Disconnect power cables before servicing. Do not connect or disconnect cables during lightning; this may damage your device or cause personal injury. For DC installations, a readily accessible UL Listed disconnect device (e.g. circuit breaker) with over current protection suitable for local code must be incorporated in the building installation wiring. For your safety, qualified service personnel must permanently connect the earthing terminal to the ground using a green-with-yellow conductor, minimum size #14 AWG.
Choc électrique / feu — Débranchez les cordons de la source d'alimentation avant tout entretien. Ne pas brancher ou débrancher les câbles lors d'un orage afin de ne subir aucun dommage corporel et éviter d'endommager votre appareil. En cas d'alimentation en courant continu (DC en anglais), un dispositif facilement accessible de déconnexion UL (par exemple, disjoncteur) avec protection contre les surintensités adapté à la réglementation locale doit être incorporé dans l'installation électrique du bâtiment. Cette séparation protège la borne de mise à la terre qui doit être en permanence reliée au conducteur à rayure verte et jaune de taille minimum #14 AWG. Seul un technicien qualifié est autorisé à effectuer le raccordement.
- **Battery** — For devices that contain a battery, there is a risk of explosion if battery is replaced with an incorrect type. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.
Batterie — Risque d'explosion si vous remplacez la batterie par un modèle incompatible. Jetez les piles usagées selon les réglementations locales. IMPORTANT: Suisse: Annexe 4.10 de SR814.013 s'appliquant aux batteries.
警告
本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池
- **Grounding** — Connections that enter from outside the building should pass through a lightning / surge protector, and be properly grounded. To prevent damage to your equipment, use an electrostatic discharge workstation

(ESD) and/or wear an anti-static wrist strap while you work. In addition to the grounding terminal of the plug, on the back panel, there is another, separate terminal for earthing.

Mise à la terre — Assurez-vous que les branchements qui entrent à partir de l'extérieur du bâtiment passent par un parafoudre / parasurtenseur et sont correctement mis à la terre. Pour éviter d'endommager votre matériel, utilisez un poste de travail de décharge électrostatique (ESD) et / ou portez un bracelet anti-statique lorsque vous travaillez. Ce produit possède une borne de mise à la terre qui est prévu à l'arrière du produit, à ceci s'ajoute la mise à la terre de la prise.

Compliance

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Warning: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。V C C I – A

Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

China

此为A级产品，在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对其采取切实可行的措施。

European Conformity (CE) – EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

IMPORTANT: Suisse: Annexe 4.10 de SR814.013 s'appliquant aux batteries.

License agreement & warranty

The parties to this agreement are you, the end customer, and either (i) where you have purchased your Product within the Americas, Fortinet, Inc., or (ii) where you have purchased your Product outside of the Americas, Fortinet Singapore Private Limited (each referred to herein as "Fortinet"). CAREFULLY READ THE FOLLOWING LEGAL AGREEMENT (THE OR THIS "AGREEMENT" OR "EULA"). USE OF FORTINET PRODUCT(S) AND ANY UPDATES THERETO, INCLUDING HARDWARE APPLIANCE PRODUCTS, SOFTWARE AND FIRMWARE INCLUDED THEREIN BY FORTINET, AND STAND-ALONE SOFTWARE PRODUCTS SOLD BY FORTINET (TOGETHER, THE "PRODUCTS") CONSTITUTES ACCEPTANCE BY YOU OF THE PROVISIONS IN THIS AGREEMENT. FORTINET SHALL NOT BE BOUND BY ANY ADDITIONAL AND/OR CONFLICTING PROVISIONS IN ANY ORDER, RELEASE, ACCEPTANCE OR OTHER WRITTEN CORRESPONDENCE OR OTHER WRITTEN OR VERBAL COMMUNICATION UNLESS EXPRESSLY AGREED TO IN A WRITING SIGNED BY THE GENERAL COUNSEL OF FORTINET. YOUR INSTALLATION OR USE OF ANY PRODUCT REPRESENTS AGREEMENT TO THE TERMS HEREIN, AS AMENDED OR UPDATED FROM TIME TO TIME IN FORTINET'S DISCRETION BY FORTINET PUBLISHING AN AMENDED OR UPDATED VERSION. IF YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS AGREEMENT, DO NOT START THE INSTALLATION PROCESS OR USE THE PRODUCTS. IF YOU DO NOT AGREE TO THE PROVISIONS OF THIS AGREEMENT, YOU SHOULD IMMEDIATELY, AND IN NO EVENT LATER THAN FIVE (5) CALENDAR DAYS AFTER YOUR RECEIPT OF THE PRODUCT RETURN THE PRODUCTS TO THE LOCATION WHERE YOU OBTAINED THEM FOR A FULL REFUND FROM THE PARTNER SELLING TO YOU.

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user’s computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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1st Edition

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